Verify ESA and SMA Mail Queue Size and Message Capacity

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Introduction

This document describes the mail queue size and message retention limits for the Email Security Appliance (ESA) and Security Management Appliance (SMA).

Determine Message Retention Capacity

Important Considerations and Risks

- **Theoretical Estimates:** The maximum message values provided are theoretical and based on an average message size of 15 KB (15,360 bytes).
- **Environmental Adjustment:** You must adjust these numbers based on the specific average message size and mail flow of the environment. For example, a higher average message size will reduce the total number of messages the queue can hold.
- **Queue Overflow:** If the mail queue reaches maximum capacity, the appliance will stop accepting new messages, which results in a denial of service for mail delivery.

In certain scenarios, the appliance must store messages for delivery at a later time. The following table summarizes the mail queue size and estimated message retention for each model:

Appliance Type	Model	Mail Queue Size	Max Messages (Est.)
ESA (Physical)	C195	10 GB	690,000
ESA (Physical)	C395	35 GB	2,440,000
ESA (Physical)	C695	70 GB	4,890,000
ESAv (Virtual)	C100V	10 GB	690,000

Appliance Type	Model	Mail Queue Size	Max Messages (Est.)
ESAv (Virtual)	C300V, C600V	70 GB	4,890,000
SMA (Physical)	M195	10 GB	690,000
SMA (Physical)	M395	20 GB	1,390,000
SMA (Physical)	M695	30 GB	2,090,000
SMAv (Virtual)	M100V	10 GB	690,000
SMAv (Virtual)	M300V	20 GB	1,390,000
SMAv (Virtual)	M600V	30 GB	2,090,000

Verify Mail Queue Size via CLI

To identify the exact mail queue size of an appliance, execute the **status detail** command from the Command Line Interface (CLI).

Command: `status detail`

Function: This command displays hardware specifications, partition sizes, and license status.
When to use: Use this command to confirm the disk space allocated to the Mail Queue partition for a specific hardware or virtual instance.
When not to use: There are no restrictions for this command, but it requires CLI access.

Example output from a C100V:

<#root>

(Machine esa.example.com)>

status detail

```
Gauges:                                   Current
  System
    RAM Utilization                            2%
    Overall CPU load average                  28%
    CPU Utilization
      MGA                                     16%
      Anti-Spam                                0%
      Anti-Virus                               0%
      Reporting                                0%
      Quarantine                               0%
    Disk I/O Utilization                       0%
    Resource Conservation                      0
    Logging Disk Usage                        22%
    Logging Disk Available                  123G
  Connections
```

```
    Current Inbound Conn.                   0
    Current Outbound Conn.                  0
```

Queue

```
    Active Recipients                       0
      Unattempted Recipients                0
      Attempted Recipients                  0
    Messages In Work Queue                  0
    Destinations In Memory                  4
```

Kilobytes Used

```
                                    0
```

Kilobytes Free

```
                            8,388,608
    Messages In Quarantine
      Policy, Virus and Outbreak            0
    Kilobytes In Quarantine
      Policy, Virus and Outbreak            0
```

Related Information

- Cisco Email Security Appliance Data Sheet
- Cisco Email Security End of Life Notices
- Cisco Email Security Product Support Home